No.

Plant Variety Protection Office ock, Meat, Grain & Seed rl Marketing Servic



8300016

TO ALL TO WHOM THESE; PRESENTS; SHALL COME;

Barenbrug Holland B.V.

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC D OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, PORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. INITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS F CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PERENNIAL RYEGRASS

'Barclay'

In Testimony Wathereot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington day of July the year of our Lord one thousand nine

hundred and eighty-sour.

	UNITED STATES DEPARTME AGRICULTURAL MAR LIVESTOCK, POULTRY, GRA	KETING SERVICE			FORM APPROVED OMB NO. 40-R3822					
AP INS	PLICATION FOR PLANT VARIENT TRUCTIONS: See Reverse.			No certificate for pla be issued unless a co has been received (5	ant variety protection may empleted application form U.S.C. 553).					
1a	. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAM	E	FOR OFFIC	IAL USE ONLY					
	BAR Lp 79-DwA	BARCLAY		PV NUMBER 8300016						
2.	KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME AK					
	Perennial ryegrass	Lolium pe	erenne	11/22/82 FEE RECEIVED	4:00 P.M.					
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETE	RMINATION	s 1,000	11/22/82					
	Gramineae	1978		\$ 500.00	6/18/84					
6,	NAME OF APPLICANT(S)	7. ADDRESS (Stree	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA					
	Barenbrug Holland B.V.	Code) Post	box 4		CODE AND NUMBER					
· ———		1	AA Arnhem, N	etherlands	(0)8308-1440					
9.	IF THE NAMED APPLICANT IS NOT A PEOPLE ORGANIZATION: (Corporation, partnersh	RSON, FORM OF ip, association, etc.)	10. IF INCORPORAT DATE OF INCOR	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION					
	Corporation		Netherland:		1904					
12.	NAME AND MAILING ADDRESS OF APP ALL PAPERS: Barenbrug Bree 2000 East Viet	ding 220 6	ATIVE(S), IF ANY, TO S	SERVE IN THIS APPLIC N.E. AURORA	OR 97002 5/17/8					
	- Meridian - Ida	ory noad ho 83642. IL S.	A. Phone 120	8 888 - 715	HS811 4/26/84					
13.	CHECK BOX BELOW FOR EACH ATTACH			3 678 Z59						
	🔀 13A. Exhibit A, Origin and Bree	eding History of the		4 /						
	🔀 13B. Exhibit B, Novelty Statem	ent.								
	13C. Exhibit C, Objective Descri	iption of the Variety	(Request form from	Plant Variety Protect	ion Office.)					
	13D. Exhibit D, Additional Des	cription of the Varie	ty.							
14a.	SEED? (See Section 83(a). (If "Yes," answer	er 14B and 14C below.)	X YES	NO	A CLASS OF CERTIFIED					
14b.	DOES THE APPLICANT(S) SPECIFY THA LIMITED AS TO NUMBER OF GENERATI	T THIS VARIETY BE	14c. IF "YES," TO 14I	B, HOW MANY GENER	ATIONS OF PRODUC-					
	X YES NO		FOUNDATION		CERTIFIED					
15a.	DID THE APPLICANT(S) FILE FOR PROT name of countries and dates,)	ECTION OF THIS VAI	L_ 		NO (If "Yes," give					
	Netherlands	8-12-1978	Denmar	k 1-2	-1981					
	German Federal Republic 2	20-11-1979	United	Kingdom 30-11	-1979					
15b.	HAVE RIGHTS BEEN GRANTED THIS VA and dates.)	RIETY IN OTHER CO	UNTRIES? XYES	NO (If "Yes,"	give name of countries					
	Netherlands November 198	32 .								
16.	DOES THE APPLICANT(S) AGREE TO TH	E PUBLICATION OF H	IIS/HER (THEIR) NAME	(S) AND ADDRESS IN	THE OFFICIAL					
17.	The applicant(s) declare(s) that a viable replenished upon request in accordance	e sample of basic seed with such regulation	d of this variety will be ns as may be applicabl	e furnished with the a	pplication and will be					
٠.	The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable at 42 of the Plant Variety Act.	e owner(s) of this se	xually reproduced nov	vel plant variety, and	believe(s) that the provisions of Section					
:	Applicant(s) is (are) informed that false	representation here	in can jeopardize prot	ection and result in p	enalties.					
	16th November 1982		/		\geq					
- 1	(DATE)		(S	GNATURE OF APPLI	CANT)					
4.1	16th November 1982				1					

EXHIBIT A

Origin and Breeding History of the variety BARCLAY.

ORIGIN

Plants collected in old turf areas in the eastern part of the Netherlands in 1975.

BREEDING HISTORY

BARCLAY is a 5-clone synthetic variety. The clones were selected after 3 years of testing under turf conditions. They were superiour in fineness of leaf and soddensity.

The creeping habit was soon discovered as the clones filled the space between the planted clones very rapidly.

Clonal propagules of the 5 parental clones were established in a replicated isolated crossing block for the production of Syn I (clonal) seed.

Breeders seed has been produced in an isolated sown field from the progeny of Syn I.

Foundation increase fields must be established from Breeders seed. Certified seed is produced from Breeders or Foundation seed.

No objectionable off-type plants or variants have been observed during reproduction and multiplication of this variety.

BARENBRUG



BARENBRUG HOLLAND BV PLANTENVEREDELING, ZAADTEELT EN ZAADHANDEL STATIONSSTRAAT 40, 6678 AC OOSTERHOUT (GLD.)

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United States Dpt. of Agriculture National Agricultural Library Building BELTSVILLE, M.D. 20705.

U.S.A.

Attn.: Mr. Joseph J. Higgins.

AFDELING

Plantbreeding

HG/HJ

20-10-1983

Ref.: BARCLAY, appl. nr. 8300016.

Dear Mister Higgins,

In answer to your letter of september 27 to Mr. Ledeboer, we have the following addition to Exhibit A and B.

Exhibit A

Stability

Barclay is a stable variety during sexual reproduction. Several seed generations (1st, 2nd, 3rd, 4th) have been observed in a pre-test with single plants and rows by the Netherlands Certification Board (N.A.K.).

No significant differences have been observed between the seed lots and no off types have shown up.

Exhibit B

P**o**int 3.

The variety is registered in the Netherlands in november 1982.

As an appendix a synopsis of the R.I.V.R.O., Wageningen is enclosed of the group "slow growing perennial ryegrass", with the most important distinguishable characteristics.

Barclay resembles most the varieties Sprinter and Score.

The significant differences are:

Barclay has a creeping growth habit.

Barclay has a later date of ear emergence than Score.

Barclay has a shorter flag leaf than Sprinter.

The plant height of Barclay is lower than Sprinter and Score.

The growth rate of Barclay is quicker than Sprinter.

These differences are shown in the table and the appendix which have been sent with the application.

We hope that we have replied to your remarks in a proper way, so that you can proceed with the application.

If there are anymore questions, please let us know.

Sincerely yours

Huib Ghijsen

Fred Ledeboer DOCHTERONDERNEMINGEN IN DUITSLAND (KISDORF), BELGIE GEMBLOUX), LUXEMBOURG (DIEKIRCH), FRANKRIJK (TORCY)

EXHIBIT B

Novelty statement

BARCLAY is a new variety for the following reasons:

- 1. Barclay is bred from collected plants. No crossings with other known varieties have been carried out.
- 2. The variety is clearly to distinct from all other known turf type varieties by its creeping habit. Its stolonlike sprouts are generative shoots which do not produce heads and form roots on the nodes.
- 3. The variety is registered in the Netherlands in November 1982.

 As an appendix a synopsis of the R.I.V.R.O. Wageningen is enclosed of the group slow growing perennial ryegrass with the most important distinguishable characteristics.

Barclay is, besides its creeping characteristic, to distinguish from the varieties Score and Sprinter by the following data: (provided by the R.I.V.R.O. upon our request)

years variety	data o emerge days a		flag le lenght		plant height in cm			
	1980	1981	1980	1981	1980	1981		
SCORE	64	66	10.0	11.0	63	71		
SPRINTER	72	7 5	12.4	14.6	71	82		
BARCLAY	71	74	8.1	11.9	57	66		
LSD %	2.3	2.9	1.7	1.5	6.0	4.4		

RIJKSINSTITUUT WOOR HET RASSENONDERZOEK VAN CULTUURGEWASSEN Engels rasigras. Indeling van het diploïde, relatief traaggroeiende sortiment

september 1982														•		•					
relatief traaggroeiende sortiment	C, middentraag	midden- lang	midden-4 groen							Barstella				Enverto							
		// kort	midden- groen						- -			ELp 125 Senator	Ensporta			Score		Bar Lp	-		Donata
	k traag 3	midden- lang	donker- groen																Sprinter		
		traag 2	donker-1 groen			Fiesta				Rex	Jennifer			Arno				Bellatrix		Sturdy	
	tamelij	kort	midden- groen									Manhattan			Runner	Trimmer	Exponent	,			
	7	midden-S	donker-ic groen			Royal													2.4		
van het di			zeer (8 donker- groen	Citation															-		
Indeling van het diploïde,		kort +1	donker-i≠ groen	Pennfine	Derby	Crown		Yorktown Barloff Mom Lp 736	Blazer				Barry	Majestic					Hunter		
els rasigras.	traag		midden6 groen										•	Loretta							
Engels		ort	zeer 15 donker- groen				•				Caravelle					Idole					
-	·	zeer kort	midden!				-									Elka					•
	/ groeisnelheid	S halmlengte	34 blad-13 aar- kleur lengte	kort 35	zeeř kort	kort 37	mj dden lang	zeer kort	જ્ઞ	kort 40	zeer kort	kort 42	zeer kort	kort 44	middenlang	zeer kort	kort 4₹	kort 40	middenläng	kort 50	middenlang
	groei	57	door- schiet- datum	vroeg tat	7.7	••••		23 tamelijk			į.	tijde	<u>,</u>	ų. I		'3 last		last tot	Zeer Teer	33 zeer laat	

Translation of the characteristics of the survey of perennial ryegrass, diploid and slow growing.

1.	growth rate	21.	dark green	41.	very short
2.	very slow	22.	dark green	42.	short
3.	slow	23.	rather green	43.	very short
. 4.	rather slow	24.	rather green	44	short
5.	culm length	25.	date of ear emergence	45.	rather long
- 6.	very short	26.	early till very early	46.	very short
7.	short	27.	early	47.	short
8.	rather long	28.	rather early	48.	short
9.	short	29.	mid late	49.	rather long
10.	rather long	30.	rather late	50.	short
11.	short	31.	late	51.	rather long
12.	rather long	32.	late-till very late		
13.	leaf colour	33.	very late	· .	
14.	rather green	34.	ear length		
15.	very dark green	35.	short		
16.	rather green	36.	very short		
17.	dark green	37.	short		
18.	very dark green	38.	rather long		
19.	dark green	39.	very short		
20.	rather green	40.	short	1.1	-

Varieties in different boxes are significant different from the characteristics—considered.

Varieties in the same box are different in other characteristics. All varieties shown are registered.



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FORM GR-470-36 (9-76)

MM. WIDER THAN

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF CULTIVARS RYEGRASS (Lolium spp.)

NAME OF APPLICANT(S)	LUADIETY NAME OR TEMPORARY REGIONATION
Barenbrug Holland B.V.	BARCLAY (BAR Lp 79-DwA
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
Postbox 4 take on again	PVPO NUMBER
6800 AA Arnhem, Netherlands	8300016
Place the appropriate number that describes the varietal character of this variety in the boxes below number if either 99 or less or 9 or less. Descriptions of characters should represent those that are ty data should be for SPACED PLANTS. Give additional description for all characteristics that canno petrinent comparative trial and evaluation data.	voical for the variety. Ranges may be given also. Measured
1. SPECIES: 2 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. PERENN 4 = HYBRID (of species) 5 = OTHER (Sp.	
2. PLOIDY:	
property and the state of the s	ecify } = 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
	ecify): 1
3. DURATION: 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years)	3 = PERENNIAL (more than 4 years)
STANDARD CULTIVARS 1 = GULF 2 = WIMMERA 62 3 = LINN	- 1947 (2040) 4 = PELO 15
5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MANHATTA	
4. MATURITY (50% HEADED) Use standards from above for comparison:	
9 1 = VERY EARLY 3 = EARLY DAYS EARLIER THAN	STANDARD CULTIVAR
9 = VERY LATE 3 DAYS LATER THAN	
5. MATURE PLANT HEIGHT (Use standard cultivars from above):	Çer.
6 3 CM. HIGH 2 4 CM. SHORTER THAN	STANDARD CULTIVAR
CM. TALLER THAN STANDARD CULTIVAR	
6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead). Use s	tandard cultivars from above for comparison:
7 2 PERCENT DAMAGE OF APPLICATION CULTIVAR	Property of the state of the st
1 8 PERCENT DAMAGE OF 8 STANDARD CULTIVAR	
7. TURF DENSITY Use standard cultivars from above:	
5 1 4 TILLERS PER 100 SQ. CM.	gradina teorificial establica de personal de la compansión de la compansió
LESS TILLERS PER 100 SQ. CM. THAN STANDARD CULTIV	AR
1 5 / MORE TILLERS PER 100 SQ. CM. THAN 7 STANDARD CULTIV	AR
9 FLAC LEAS (at full growth) . The standard pulsings from shour	 The second of the second of the
8. FLAG LEAF (at full growth) Use standard cultivars from above: CM, LENGTH (from ligule to tip) 4.7. MM, WIDT	物で記した。
Total or act at the state of	1 = DEFLEXED
1.5 CM. SHORTER THAN	AR 6 FLAG LEAF AT 3 = RECURVED 5 = HORIZONTAL 7 = SEMI-ERECT 9 = ERECT
CM. LONGER THAN STANDARD CULTIV	AR
O. 6 MM, NARROWER THAN	

STANDARD CULTIVAR

FORM APPROVED DUE NO. JOH

15.	DISEASE (0 = N 8 = H	OT TESTED, 2 = HIGHLY S IGHLY RESISTANT):	JSCEPTIBLE, 4 =	MODERATELY SUSCEPT	TIBLE, 6 = MODERATELY RESISTANT	-,
4	CROWN RUST (Puccinia coronata)	O DOLLAR S	POT (Sclerotinia)	BROWN PATCH (Rhizoca	tonia)
6	LEAF SPOT (Hel	minthosporium)	8 MILDEW	•	OTHER (Specify)	
0	SNOW MOLD (T	yphula)	6 RED THRE	AD (Corticium)	<u> </u>	
16.		OT TESTED, 2 = HIGHLY SU	SCEPTIBLE, 4 =	MODERATELY SUSCEPTI	BLE, 6 = MODERATELY RESISTANT,	,
0	(Specify)					
17.	COMPARISON IS	NCE VALUE IN LEFT COLU MADE (1 = LESS THAN, 2 EATER HEIGHT.):	MN AND VARIET = SAME AS, 3 =	Y CODE NUMBER IN RIG MORE ERECT, MORE R	GHT COLUMN FOR VARIETY WITH WI ESISTANT, DENSER, MORE PERSIST	HICH ENT,
_	RESEMBLANCE	CHARACTER		SIMILAR VARIE	<u>TY</u>	
	1	PLANT HABIT (erectness)	•	1 = GULF		
0	3	TÍLLERING		? 2 = WIMMERA 62	2	
	2	WINTER HARDINESS	¥	3 = LINN		
		HIGH TEMP. STRESS RESI	STANCE	4 = PELO		
	3	TURF PERSISTENCE		5 = NORLEA		
	2	PLANT COLOR		4 6 = ABERYSTWY	7TH S-23	
	2	VERTICAL SEEDLING GR	OWTH RATE	7 = MANHATTAN	N	
	3	CROWN DENSITY		8 = PENNFINE		
	3	MOWER SHREDDING RES	STANCE	7		
18.	GIVE AREA OF	ADAPTATION AND INTENDE	D USE: Ove	erseeding, sod, s	sports and amenity turf.	
19	GIVE AREA TEST	T RESULTS PRESENTED FRO	om: Wolfh	eze (The Netherla	ands)	
COM	ментs: The var	iety is also disti	nguishable	oy its strong cre	eeping habit, which is	

a great advantage for the sod-industry and overseeding. In general this characteristic will give a quick establishment and recovery.